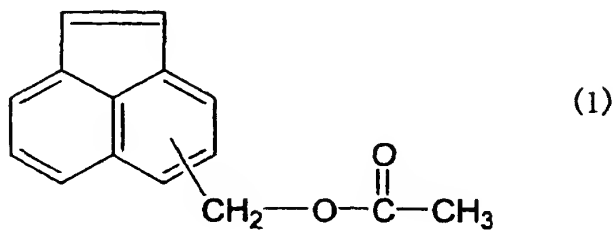


CLAIMS

1. Acetoxymethylacenaphthylene of the following formula

(1).

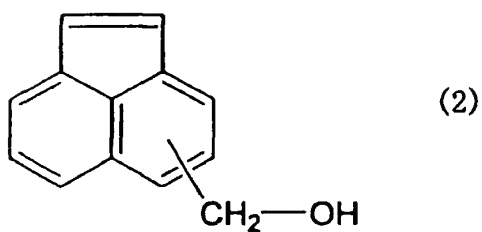
5



2. Hydroxymethylacenaphthylene of the following formula

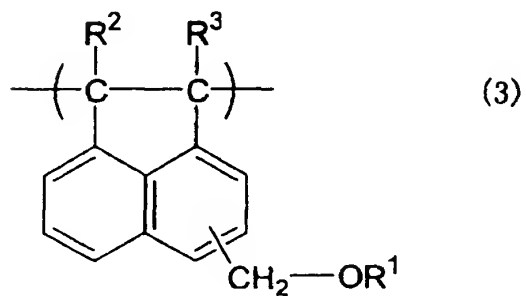
(2).

10



3. A polymer containing a structural unit of the following formula (3),

15

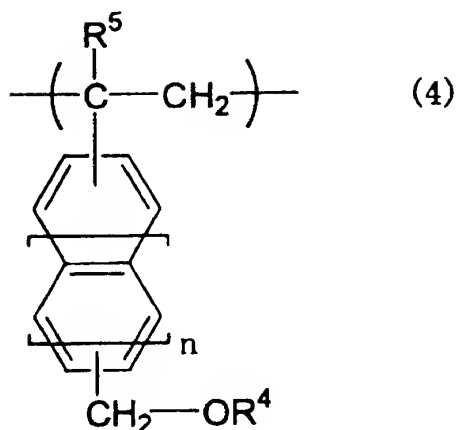


wherein R¹ is a hydrogen atom and R² and R³ individually represent a monovalent atom or a monovalent organic group, the polymer having a polystyrene-reduced weight average
 5 molecular weight determined by gel permeation chromatography (GPC) in the range of 500 to 10,000.

4. An antireflection film-forming composition comprising the polymer of claim 3 and a solvent.
 10

5. The antireflection film-forming composition comprising,

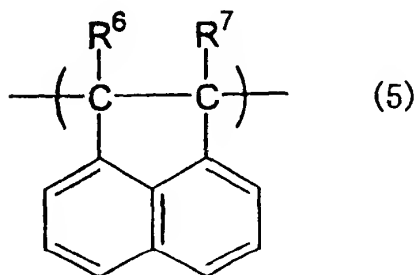
a polymer having a structural unit of the following formula (4)
 15



wherein R⁴ is a hydrogen atom or a monovalent organic group, R⁵ is a monovalent atom or a monovalent organic group, and n
 20 is 0 or 1, and
 a solvent.

6. An antireflection film-forming composition comprising,

at least one polymer selected from the group consisting
5 of a polymer having the structural unit of the formula (3) of claim 3 and the structural unit of the formula (4) of claim 5, a polymer having the structural unit of the formula (3) of claim 3 and a structural unit of the following formula (5), and a polymer having the structural unit of the formula (4) of claim
10 5 and a structural unit of the formula (5),



wherein R⁶ and R⁷ individually represent a monovalent atom or
15 a monovalent organic group, and
a solvent.

7. The antireflection film-forming composition according to claim 4, further comprising an acid generator.
20

8. The antireflection film-forming composition according to claim 5, further comprising an acid generator.

9. The antireflection film-forming composition
according to claim 6, further comprising an acid generator.

10. The antireflection film-forming composition
5 according to claim 4, further comprising an acid generator.